



Jeep Grand Cherokee (WK) Jeep Commander (XK) Security System

INSTALLATION INSTRUCTIONS

Professional Installation is Recommended



Note: Both Factory RKE Keyfobs are required for option programming & Driver's Door Priority Unlock feature must be enabled.



Technical Support

For Authorized Dealers - (800) 34-MOPAR

Hours: 9:00 a.m. - 6:00 p.m. EST Monday thru Friday

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Jeep Grand Cherokee & Commander

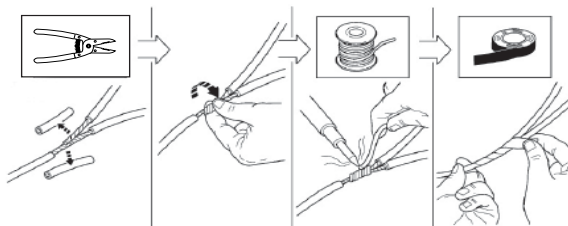
Security System

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The soldering procedure illustrated below must be followed when performing wire connections under the hood. Failure to use this procedure could result in improper performance of the security system.



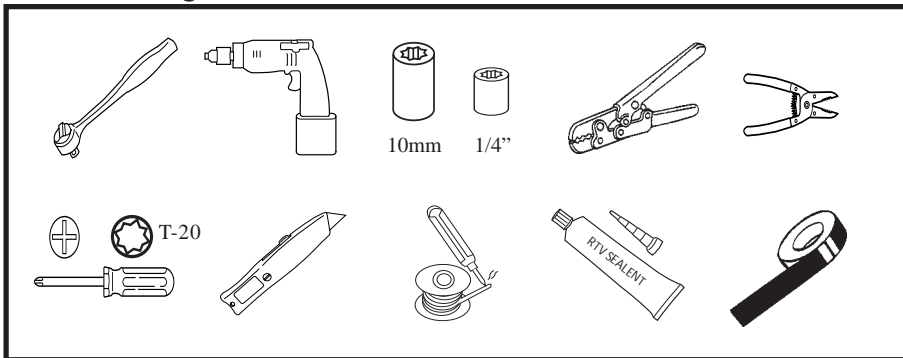
This product was manufactured in environmentally friendly manufacturing facility and may contain certain recycled materials. All materials meet or exceed original specifications for quality and reliability.

This device complies with part 15 of the FCC rules and with RSS-210 of the industry Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

VEHICLE PREPARATION

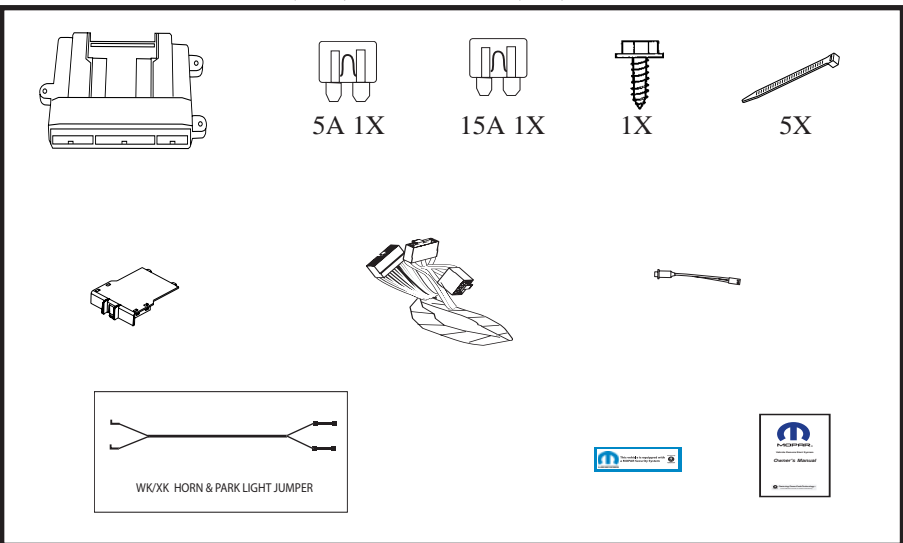
1. Lower one or more of the passenger windows so the keys do not get locked in the vehicle.
2. Disconnect and isolate the negative battery cable. The battery will need to be re-connected before programming.
3. **System installation requires 2 working factory RKE keyfobs for programming options.**

TOOLS REQUIRED



PARTS REQUIRED

Part Number 82209709 (WK) or 82209710 (XK)



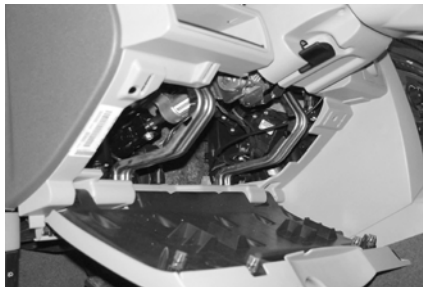
Overview

The security module harness will interface with the existing ignition switch connector, horn, parking lights, power doorlock & door trigger connections, and a ground termination.

Vehicle Preparation

Remove driver's side lower dash panels, located directly under the steering column and left kick panel.

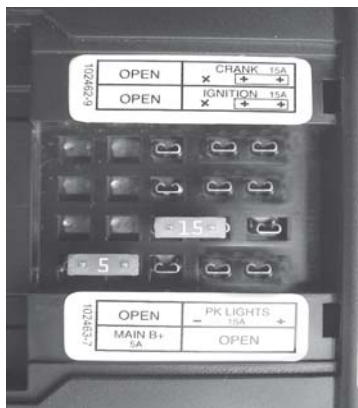
- A. Pull down lower dash & remove.
- B. Remove (2) screws from black under dash panel & remove.
- C. Remove left kick panel and sill plate by gently pulling them off.



Module Preparation

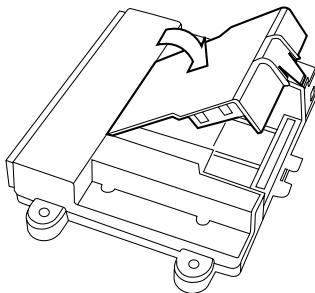
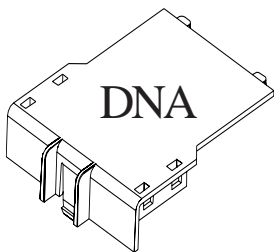
Place fuses into the control module.

- A. Observe fuse amperage ratings.
Place the 5 Amp fuse into the "Main B+" location. Place the 15 Amp fuse into the negative "PK LIGHTS" location.



Install DNA into the control module

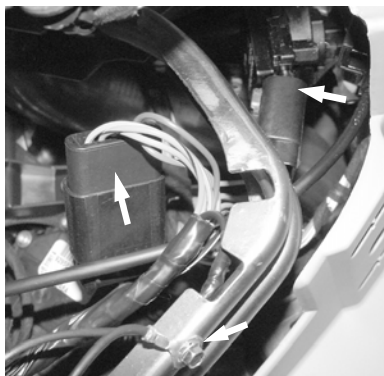
- B. Insert DNA into the control module.
Ensure the DNA assembly snaps completely in place and no circuit board pins get bent while closing.



Install Custom Harness.

Ignition switch connector

- A. Locate ignition switch connector, directly behind the ignition switch. Release the red secondary lock. While pushing on main release, remove connector from ignition switch.
- B. Connect the harness 5-way female connector to the vehicle's ignition switch.
- C. Connect the harness 5-way male connector to the vehicle's 5-way ignition connector previously removed from the ignition switch.



Ground

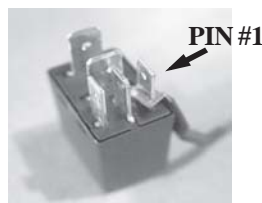
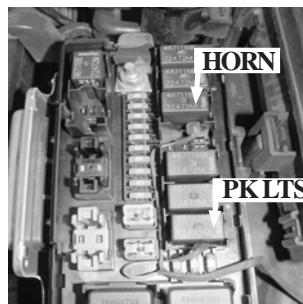
- D. Using a supplied 1/4" screw, secure the black ground wire with ring terminal to the metal under dash brace as shown in diagram.

Parking Light & Horn Connections

- E. Route the Green and Yellow wires to the relay junction box on the driver side of the engine compartment. Remove the horn relay as shown in the diagram. Slide the supplied Green wire relay terminal connector over terminal 85 (pin #1) of the relay as shown in the diagram.

Remove the parking light relay as shown in the diagram. Slide the Yellow wire relay terminal connector over terminal 85 (pin #1) of the parking light relay as shown in the diagram.

Re-insert the relays into place. Route the wiring from the relay connectors out of the junction box and connect the Green wire of the jumper to the Green wire of the harness & connect the Yellow wire of the jumper to the Yellow wire of the harness. Solder connection.



Horn & Pk Light Jumper

Power Door Lock Connections - Battery will need to be reconnected to test wires

Arm Wire Connection

- F. Locate the Lt Green/Lt Blue wire, found in the harness in the left kick panel. This wire will show +12v when the doors are locked using the RKE keyfob. Center-splice the harness Lt Blue wire into this wire, following the center-splice procedure.



Disarm Wire Connection

- G. Locate the Lt Green/Dk Green wire, found in the harness in the left kick panel. This wire will show +12v when the driver door is unlocked using the RKE keyfob (first press). Center-splice the harness Brown wire into this wire, following the center-splice procedure.

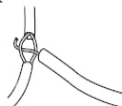


Unlock Sense Wire Connection

- H. Locate the Lt Green/Tan wire, found in the harness in the lower left kick panel/sill. This wire will show +12v when all doors are unlocked on the second press of the unlock button using the RKE keyfob. Center-splice the harness Lt Green wire into this wire, following the center-splice procedure.

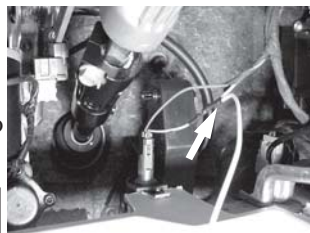


Center-splice Procedure



Door Trigger Connection

- I. Locate the Yellow/Orange wire, found at the under dash light. Center-splice the harness White wire into this wire, following the center-splice procedure.



Status LED

- J. Drill 9/32" hole in trim panel as shown in diagram. Exact placement needs to be determined before drilling. Ensure there is nothing on the backside of the panel and there is enough depth for the LED when the panel is replaced. Once drilled, feed the female connector and LED through the opening and snap into place. Route 2-pin harness from main wire harness to LED mounting location and mate connectors.



XK LED Location



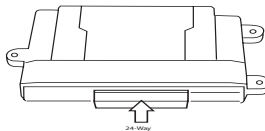
WK LED Location

Security Module Connections

- K. Connect the 24-way connector into the PC-12 Security module.

Mount module

- L. Using supplied wire ties, secure the module to existing wire harnesses and/or braces under the dash.



System Programming

Notes:

1. Reconnect the negative battery terminal prior to programming.
2. System installation requires 2 working factory RKE keyfobs for programming options.
3. Ensure Driver's Door Priority Unlock feature is enabled for proper operation of security system. Refer to vehicle's Service Manual.
4. This system has 2 option banks. Bank 1 has 8 options, and Bank 2 has 4 options. Refer to the Option Bank Chart on page 11 for details.

Option Programming.

The remote security system has several installer programmable options which can be changed to accommodate different circumstances. In most cases, there will be a need to change option settings (i.e. adjustment of shock sensor sensitivity, horn pulse output duration, etc).

- A. Open the driver's door.
- B. Turn the ignition to the "on" position.
- C. **Press and hold** the programming/override button; *After 10 seconds the parking lights will flash 3 times indicating the system is now in learn mode.*
- D. **Release** the programming button.
- E. **Press and release** the programming button once more; *The parking lights will flash 4 times indicating the system has entered Option Bank 1.*

To change the setting of an option:

- A. Press the door trim "Lock" switch or, if the vehicle's door lock feature is non-functional with the ignition turned on, press the factory keyfob "Lock" button (of the keyfob that is not in the ignition cylinder) to advance to the desired option (refer to the Option Bank Chart).
The parking lights will flash a number of times indicating which option is selected (i.e. Two flashes indicates that option number two has been selected).
- B. Press the door trim "Unlock" switch to change the setting of an option..
The status LED indicates the setting of the option; LED ON indicates that the option is on, LED OFF indicates that the option is off.
- C. To advance to Option Bank 2, at any point while in Option Bank 1, **press and release** the programming/override button to advance to option bank number two. *The parking lights will flash 5 times indicating the system has entered Option Bank 2.*
To return back to Option Bank 1, press and release the programming/override button once again (4 flashes).

Shock sensor setting: (Ensure module is mounted before adjustment!)

The “Lite-touch” and “Full shock” sensor settings are always the first and second options, respectively, in Option Bank 1. To change the shock sensor setting, follow these steps:

- A. Make sure the driver’s window is rolled down.
- B. Enter Option Learn Mode, Option Bank 1, as shown on page 9.
- C. Go to option #1 for Lite-touch (*parking lights flash 1 time*).
- D. Close all doors (wait for domelight to turn off).
- E. Press the door trim “Unlock” switch to increase sensitivity and press the door trim “Lock” switch to decrease sensitivity.
- F. Test the shock sensor sensitivity (while in option learn mode) by applying an impact with an open hand to the windshield. **Caution - make sure to remove articles of jewelry to avoid scratching or breaking glass.**
The parking lights will flash each time an impact is detected that is greater than the current setting.
- G. Once the desired Lite-touch sensitivity is achieved, **open a door** to advance to the Full shock option by pressing the door trim “Lock” switch or, if the vehicle’s door lock feature is non-functional with the ignition turned on, press the factory keyfob “Lock” button (parking lights flash 2 times). Repeat steps D through F to set Full shock sensitivity.
- H. **Open a door** to continue with “To change the setting of an option” on page 9 (if necessary).

Option Programming - Option Banks

<i>Option Bank 1 – 4 flashes</i>	FACTORY SETTING
1 – Lite-touch adjustment	
2 – Full shock adjustment	
3 – Horn pulse short/long*	
On - Short output, Off - Long output.....	On
4 – Selectable chirps	
Enables arming/disarming confirmation chirps.....	On
5 – Silent choice.....	On
On – Confirmation chirp on second press of transmitter button	
Off – Confirmation chirp on first press of transmitter button.	
Requires option #4(above) to be ON.....	On
6 – Not used	
7 – Optional alarm disable	
Disables security functionality.....	Off
8 – Noise control	
Limits alarm trips to 5 per zone.....	On
<i>Option Bank 2 – 5 flashes</i>	FACTORY SETTING
1 – Door ajar switch input polarity	
LED On – Positive, LED Off – Negative.....	Off
2 – Unlock switch sense input polarity	
LED On – Positive, LED Off – Negative.....	On
3 - Not used	
4 – Door ajar input entry delay	
(5) Five Second entry delay.	Off

*If the horn does not honk when the systems is triggered, turn off Option #3 in Option Bank #1.

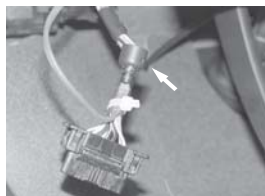
Security Function Checklist

- ☐ SECURITY SYSTEM ARM/DISARM
- ☐ USING FACTORY RKE KEYFOBS
- ☐ VERIFY INTERIOR DOOR TRIM UNLOCK SWITCH DOES NOT DISARM SYSTEM
- ☐ ALL ENTRY POINTS TRIP ALARM CYCLE
- ☐ STATUS INDICATOR FLASHES WHEN ARMED
- ☐ SHOCK SENSOR SETTINGS (LITE-TOUCH & FULL SHOCK)
- ☐ PROGRAMMING/OVERRIDE BUTTON DISARMS SYSTEM WITH IGNITION ON

Reassembly

Component mounting.

- A. Mount security module to existing underdash braces or wire harnesses using the supplied wire ties. Avoid moving parts (steering column, brake pedal assembly).
- B. Using supplied wire ties, secure the security module harness to existing wire harnesses under the left side of the dash. Ensure no wires will become entangled in the steering column knuckle and that they are not visible to vehicle occupants.
- C. Using a supplied wire tie, secure the programming/override button to the harness leading to the vehicle's diagnostic connector. Consistency in mounting this switch in the same place every time will make it easier to find in case the system comes back for service. Also, the dash will not have to be disassembled to access it. **Ensure that the placement of the programming/override button is indicated in the Owner's manual and the customer knows where it is located and can access it.**



Dash reassembly.

- A. Reverse the dash disassembly procedure.

JEEP GRAND CHEROKEE & COMMANDER SECURITY SYSTEM LAYOUT

